

Film x 1000

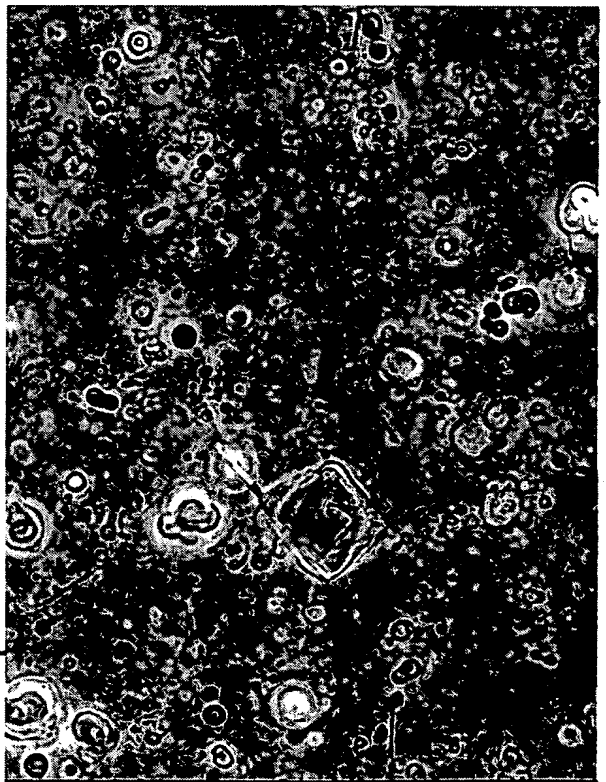


Figure 2

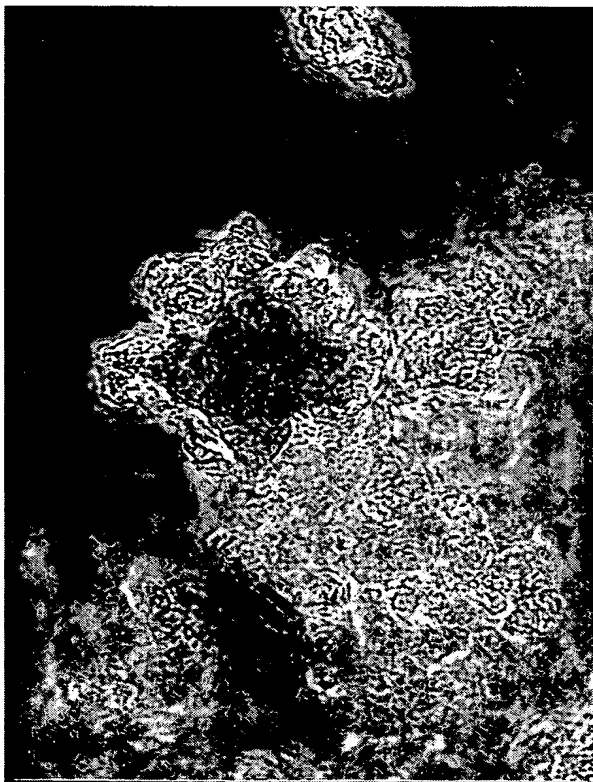
Film x 400



Liposome



Cochleates



Cochleates + EDTA

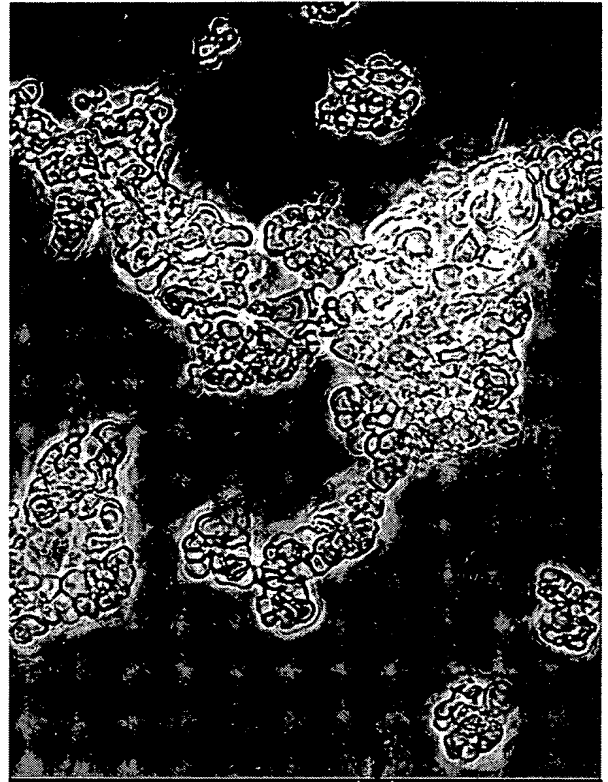
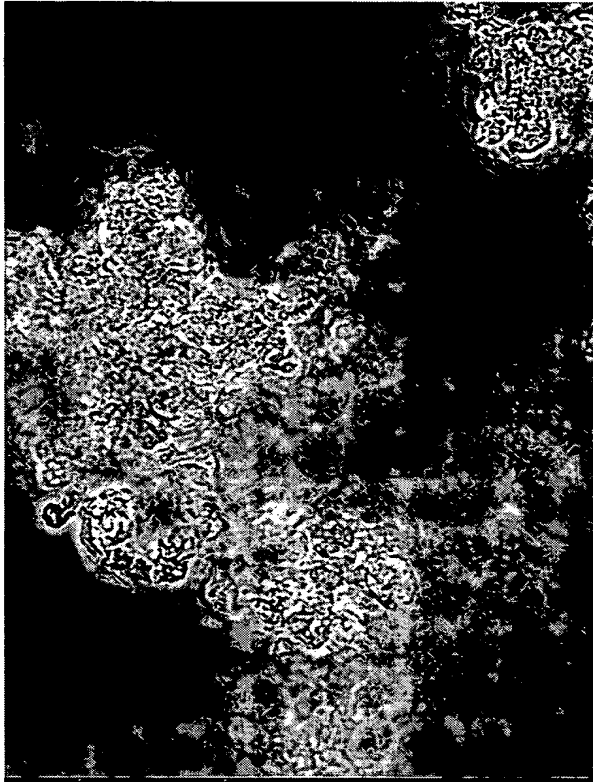
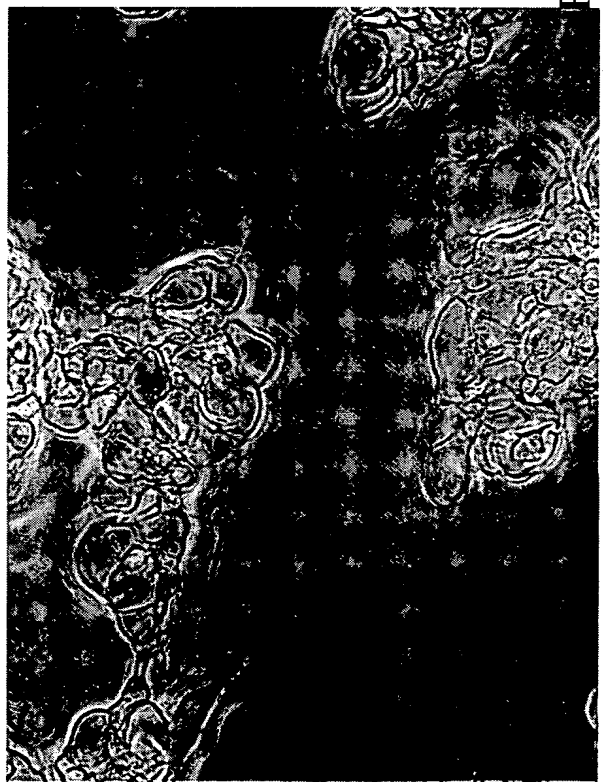
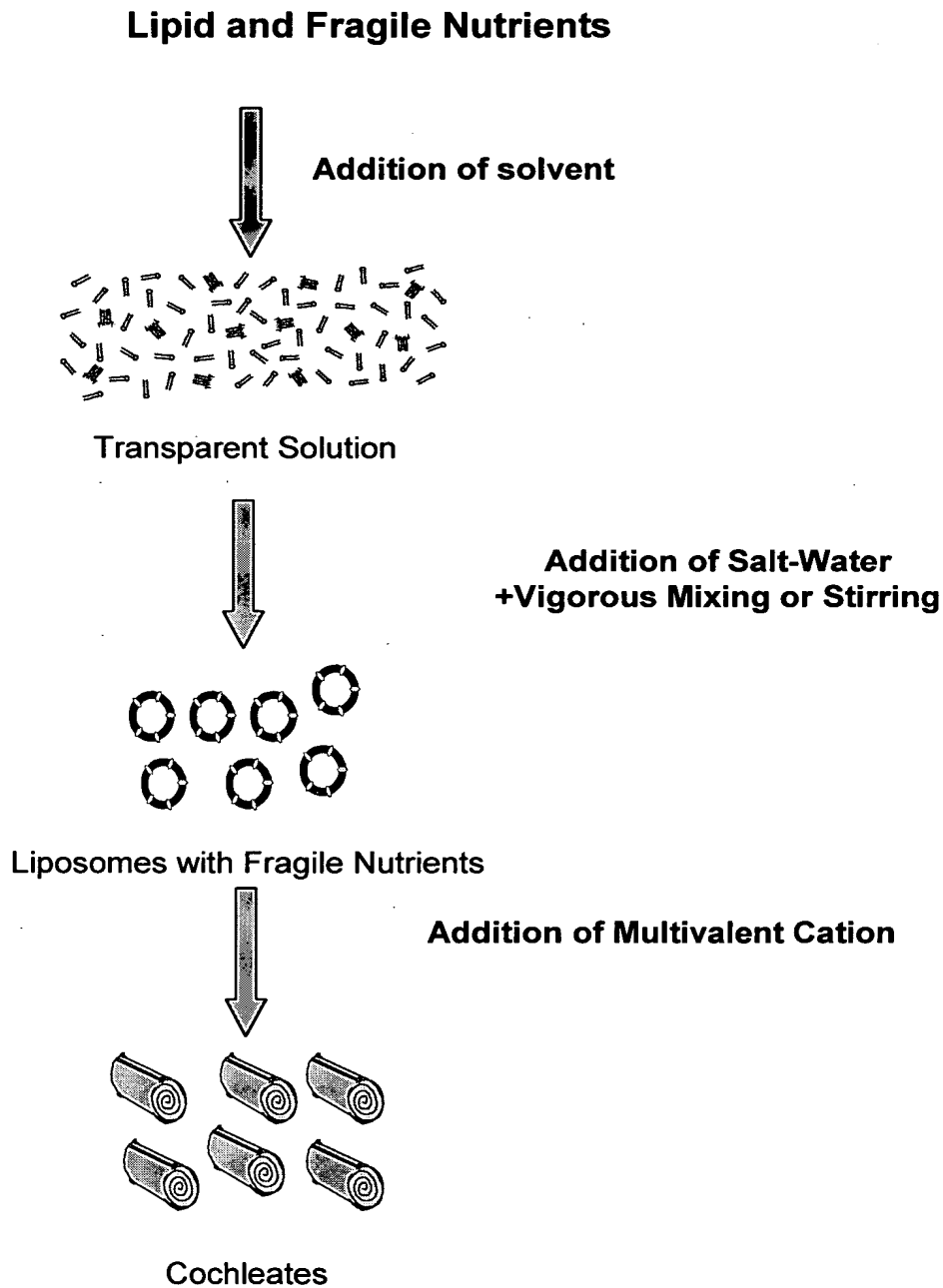


Figure 3

Preparation of Fragile Nutrient Cochleates



The cochleates in suspension can be harvested by filtration, centrifugation, or other techniques, and dried to a powder.

Figure 4

Soy-PS+ β -carotene (ratio 20/1) + vitamin E (ratio 100/1)

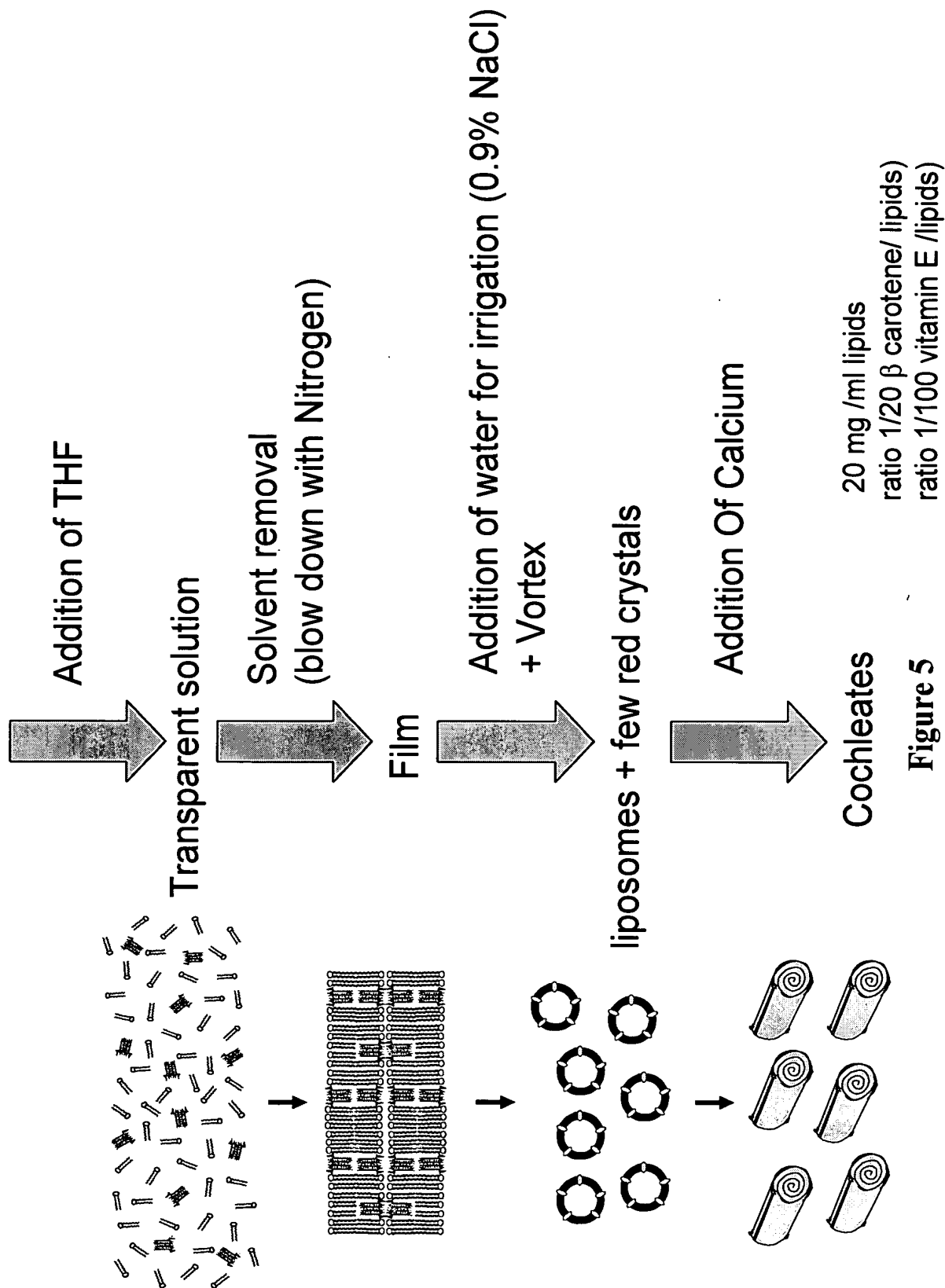


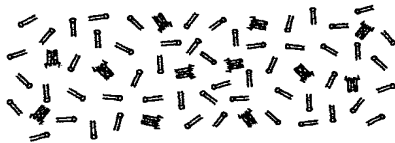
Figure 5

Preparation of Beta Caroten Cochleates

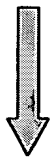
**1 g Soy-PS+ 50 mg β -carotene (ratio 20/1)
+ 10 mg vitamin E (ratio 100/1)**



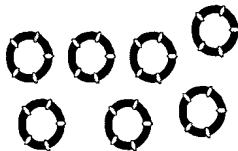
Addition of 10 ml of THF, (Tetrahydrofuran)



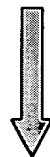
Transparent Solution



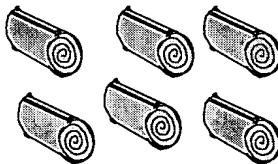
**Addition of 300 ml water for irrigation (0.9% NaCl)
+Vigorous Mixing or Stirring**



**Liposomes and
A few red crystals**



**Addition of 15 ml of 0.1 M calcium chloride
(50 ul/10 sec. with vigorous mixing)**



Cochleates

**The cochleates in suspension can be harvested by filtration,
centrifugation, or other techniques, and dried to a powder.**

Figure 6

Figure 7

Fish oil cochleates of the invention



Fish oil cochleates upon addition of EDTA

